Insects

approached them. Science the is diagnosis essential—as opposed to accidental properties. But science has come very slowly into the reasoning processes of mankind. differs radically Reason from directive instinct helpless that it is without in and experience and may be misled memory. bv The them. directive instinct may be action of compared to machine that is devised to execute a particular upon the plaving movement particular chord of music. Reason resolves the chord into component notes which by inferences perience and memory, are brought into connection with opinion or behaviour. The experience may be direct, or indirect—that is to have been derived from the sensory impression an obiect or from information acquired from others by means of gestures or words. A new-born baby is helpless, since it lacks all but rudiments of directive instinct and also lacks experience and memory. Reason is popularly supposed to be prerogative, and even evolutionist speculation coloured bv the sometimes assumption that this capacity is a development peculiar humanity. But if the doctrine of evolution is reliable the germs of reason *must* be inherent all tures, and an unprejudiced survey of haviour of the lower animals will find no lack of capacity evidence of some for

which will pursue the routine of nest-

reasoning

making and eag-laying in complete disregard of accidents that render their labour useless and absurd. will careful discrimination in the use tasks preliminary of choosing a site for the nest and in selecting materials, showing a judgment that indicate that they can compare the merits different sites and substances, and can draw